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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/095,032	06/10/1998	RONALD L. MOSGROVE	INPA.221	9175

7590

11/20/2002

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EXAMINER

LEFKOWITZ, SUMATI

ART UNIT

PAPER NUMBER

2189

DATE MAILED: 11/20/2002

15

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/095,032

Applicant(s)

MOSGROVE, RONALD L.

Examiner

Sumati Lefkowitz

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 September 2002.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-46 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-46 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

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## DETAILED ACTION

1. Claims 1-46 are pending.

### *Double Patenting*

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-46 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-12 of U.S. Patent No. 6,418,493 in view of Fujimori et al., 5,978,854 (hereinafter Fujimori).

Claims 1-2 and 8-12 of Mosgrove 6,418,493 disclose claims 25-32 of the instant application. Specifically, patent 6,418,493 discloses a program storage device with instructions which, when executed by a computer, map a plurality of virtual addresses to respective physical addresses upon detecting a configuration event, wherein each virtual address and its respective physical address is mapped into at least one of an array, a doubly linked list, a tree, a table and a file, wherein the mapping includes querying each of the plurality of bus devices, identifying each queried device, ascertaining the virtual address and the physical address for each identified

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device, constructing a map of the virtual address to physical address, and storing map, wherein the map is bi-directional and the virtual address is a GUID.

Mosgrove 6,418,493 does not disclose that the map is distributed across a plurality of bus devices on the first bus.

Fujimori discloses that the map is distributed across a plurality of bus devices on the first bus (note column 3, lines 1-35).

It would have been obvious to one of ordinary skill in the art at the time of the invention to distribute the map across a plurality of devices on the first bus, as Fujimori teaches, in the system of Mosgrove 6,418,493 so as to relieve the typically used one device from the burden of keeping track of physical IDs and unique IDs.

### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lawande et al., 6,219,697 (hereinafter Lawande) in view of Fujimori et al., 5,978,854 (hereinafter Fujimori).

a. As to claims 1-9, 13-21, 25-28, 31-37, and 40-44, Lawande discloses a bus system comprising a dynamically configurable bus (i.e., IEEE 1394 serial bus), a first bus device on the bus at a first virtual address and a first physical address, a second bus device on the bus at a second virtual address and a second physical address, and a map of the first and second virtual

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addresses to the first and second physical addresses, respectively, encoded on a program storage medium (i.e., look-up table 198 in RAM 196), the map being accessible over the bus, wherein at least one of the first and second virtual addresses is a guaranteed unique identifier (i.e., unchangeable network identifier) wherein the map resides on at least one of the first and second bus devices, wherein at least one of the first and second bus devices is a bus manager (i.e., network manager 190), wherein the bus manager comprises one of a workstation and a personal computer, wherein the map is stored on the bus manager, wherein the bus system implements a network, wherein at least one of the first and second bus devices is selected from the group comprising a printer, a plotter, a workstation, a personal computer, a video camera, and a magnetic tape drive, wherein the map is encoded as a structure from the group of an array, a doubly linked list, a tree, a table, and a file, that the bus is dynamically configurable, and that the mapping is performed only for the bus devices experiencing a configuration event (note abstract, Figures 6A-6C and 8, column 3, line 58 – column 4, line 17, column 4, lines 60-65, column 11, line 37 – column 16, line 40).

Lawande fails to disclose that the map is distributed across a plurality of bus devices on the first bus.

Fujimori discloses that the map is distributed across a plurality of bus devices on the first bus (note column 3, lines 1-35).

It would have been obvious to one of ordinary skill in the art at the time of the invention to distribute the map across a plurality of devices on the first bus, as Fujimori teaches, in the system of Lawande so as to relieve the typically used one device from the burden of keeping track of physical IDs and unique IDs.

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b. As to claims 10, 22, 30, 38, and 45, Lawande fails to disclose that the map is bi-directional.

Examiner takes Official Notice that bi-directional maps are well known in the art of address/id mapping.

It would have been obvious to one of ordinary skill in the art at the time of the invention to employ the use of a bi-directional map in the system of Lawande so as to provide more flexibility in accessing the map by allowing the data in the map to be indexed with more than one index.

c. As to claims 11, 12, 23, 24, 29, 39, and 46, Lawande fails to disclose that the bus includes a first dynamically configurable bus and a second dynamically configurable bus coupled by a bridge, but does disclose the mapping of virtual addresses to physical addresses is performed only for bus devices experiencing a configuration event.

Examiner takes Official Notice that computer/network systems with a hierarchy of IEEE 1394 buses coupled by bridges are well known in the art of computer/network systems.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have multiple IEEE 1394 buses coupled by a bridge in the system of Lawande so as to allow for the connection of additional IEEE 1394 devices on additional buses when the limits set by the IEEE 1394 standard have been reached.

### ***Response to Arguments***

6. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

*Conclusion*

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure as the art discloses translating from virtual to physical network addresses/ids for network devices.

US Patents: 5,825,752 Fujimori et al. 5,764,930 Staats

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sumati Lefkowitz whose telephone number is 703-308-7790. The examiner can normally be reached on Monday-Friday from 6:45-3:15.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Wong, can be reached at 703-305-3477.

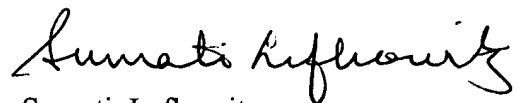
The fax phone numbers for the organization where this application or proceeding is assigned are:

703-746-7238 for After-Final communications

703-746-7239 for Official communications

703-746-7240 for Non-Official/Draft communications

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.



Sumati Lefkowitz  
Primary Examiner  
Art Unit 2181

sl  
November 15, 2002